## **Noise Abatement and Control**

Checklist for HUD or Responsible Entity

General requirements	Legislation	Regulation
Encourage land use patterns for housing and other noise sensitive urban needs that will provide a suitable separation between them and major noise sources	Noise Control Act of 1972 The Quiet Communities Act of 1978 as amended OMB Circular 75-2, "Comparable Land Uses at Federal Airfields"	24 CFR Part 51 Subpart B Noise Guidebook

and major noise sources	Land Uses at Federal Airfields"	
rehabilitation of noise sensitive u	on, purchase or resale of existing, mouse (i.e., housing, mobile home parks, re quiet is integral to the project's fu	, nursing homes, hospitals,
	t subject to the noise standards. Mainta ermination that the project is not subject ERR).	
miles of a civil airport or militar	feet of a busy road or highway, 3,00 y airfield? Are there any other potence a noise level above HUD's acceptate clubs, event facilities, etc?	ntial noise sources in the
	dentifying distances from roads, railroa You do not need to calculate a specific	
3. Determine the actions to take base Is the activity for:	ed on the project and HUD Acceptab	ility Standards.
http://www.hud.gov/offices/cpd/enviro  Purchase or resale of existing but buildings for which this is the secon HUD or RE determines need based  Modernization. Noise calculation evaluation of project. Proceed to 3  Major or substantial rehabilitation Calculate noise using HUD standard.	on (use the definition contained in the s	to 3.a ore than 1 year old or alculation is not required. d to 3.b es need based on their pecific program guidelines).

HUD General Acceptability Standards	
HUD determination	Day night average sound level in decibels (dB)
Acceptable	Not exceeding 65 dB
Normally Unacceptable	Above 65 dB but not exceeding 75dB
Unacceptable	Above 75 dB +

# **Noise Abatement and Control**

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<b>New Construc</b>	tion
Is the Day	-Night average sound level:
Above 75 d	B. Construction of new noise sensitive uses is generally prohibited, an EIS is required
	approval. The Assistant Secretary or Certifying Officer may waive the EIS requirement
	nere noise is the only environmental issue and no outdoor sensitive activity will take place
	(Under § Part 50 approval is required of the Assistant Secretary for CPD, under § Part 58
the Certify	ing Officer must provide approval). The project must be mitigated to acceptable
standanrds	. Document the ERR with the noise calculation, EIS, EIS waiver if approved, mitigation
	nts and when complete, evidence of mitigation
	B but not exceeding 75 dB. Construction of new noise sensitive uses is discouraged –
	jects require special environmental reviews and may require special approvals prior to
	on (except when the threshold has been shifted to 70 dB as described below). Information
_	l at 51.104 (b)(1). Document ERR include the noise calculation, special review and
^ ^	Document mitigation requirements and when complete, evidence of mitigation.
	ing 65 dB. (this threshold may be shifted to 70 dB on a case-by-case basis when 6 specific
	are satisfied as described at Section 51.105(a)). Noise levels are acceptable. Document
the noise c	alculation in the ERR
h Dunahasa a	n Decele of Evicting Duilding
	r Resale of Existing Building -Night average sound level above an acceptable level (based on noise calculation or
	of the site using maps or a site visit)?
	ider environmental noise as a marketability factor when considering the amount of
	or assistance that will be provided to the project? Noise exposure by itself will not result in
	of HUD support for the resale and purchase of otherwise acceptable existing buildings.
	ar determination in the ERR.
	d your determination in the ERR
c. Modernizat	tion
Is the Day	-Night average sound level above an acceptable level (based on noise calculation or
	of the site using maps or a site visit)?
Yes. Encou	urage noise attenuation features in alterations. Record your determination in the ERR.
Identify ho	w you are encouraging noise attenuation
□No. Record	d your determination in the ERR
d. Major or S	ubstantial Rehabilitation
	ght average sound level:
	B. HUD or the RE shall actively seek to have project sponsors incorporate noise
	features, given the extent and nature of the rehabilitation being undertaken and the level
	noise exposure and will strongly encourage conversion of the noise exposed sites to land
_	atible with the high noise levels. Document the ERR include the noise calculation and
	en to encourage noise attenuation.
	B but not exceeding 75 dB. HUD or the RE shall actively seek to have project sponsors
	e noise attenuation features, given the extent and nature of the rehabilitation being
	and the level of exterior noise exposure Document ERR include the noise caluclation and
	en to encourage noise attenuation.
	ing 65 dB. (this threshold may be shifted to 70 dB on a case-by-case basis when 6 specific
	are satisfied as described at Section 51.105(a)). Noise levels are acceptable. Document
uie EKK W	ith the noise calculation.

**DISCLAIMER**: This document is intended as a tool to help Region X HUD grantees and HUD staff complete environmental requirements. This document is subject to change. This is not a policy statement, refer to the 24CFR Part 51 Subpart B and the Noise Guidebook for specific guidance.

9/10/2014 DNL Calculator

HUD > Program Offices > Community Planning and Development > Environment > DNL Calculator

### **Site DNL Calculator**

For more information on using the noise calculator, to access the user guidebook, or send comments, please visit the following page:

#### **Day/Night Noise Level Electronic Assessment Tool**

#### Guidelines:

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive nondecimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- Note #1: Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- Note #2: DNL Calculator assumes roadway data is always entered.

Site ID SRP0037020			
Record Date 09/10/2014			
User's Name Adam Nelson			
Road # 1 Name: Mantoloking Road			
Road #1			
Vehicle Type	Cars 🗹	Medium Trucks 🗹	Heavy Trucks
Effective Distance	30	30	
Distance to Stop Sign	0	0	
Average Speed	40	40	
Average Daily Trips (ADT)	10813	569	
Night Fraction of ADT	15	15	
Road Gradient (%)			
Vehicle DNL	59.1345	56.3462	
Calculate Road #1 DNL	60.998	Reset	
Road # 2 Name: Hooper Avenue			
Road #2			
Vehicle Type	Cars 🗹	Medium Trucks 🗹	Heavy Trucks

9/10/2014 DNL Calculator

Effective Distance	900	900	
Distance to Stop Sign	0	0	
Average Speed	35	35	
Average Daily Trips (ADT)	17235	908	
Night Fraction of ADT	15	15	
Road Gradient (%)			
Vehicle DNL	37.8425	35.0593	
Calculate Road #2 DNL	39.7075	Reset	

Add Road Source Add Rail Source

Airport Noise Level Loud Impulse Sounds? • Yes • No

Combined DNI for all
60.998
Combined DNL for all Road and Rail sources
Combined DNL including Airport NA
Site DNL with Loud Impulse Sound
Coloulato

#### **Mitigation Options**

If your site DNL is in Excess of 65 decibels, your options are:

- No Action Alternative
  Cancel the project at this location **DNL Calculator**
- Other Reasonable Alternatives
  Choose an alternate site **DNL Calculator**
- Mitigation
  - Contact your Field or Regional Enviornmental Officer - <u>Environmental Contacts</u>
  - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas).
  - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses DNL Calculator
  - Incorporate natural or man-made barriers. See <u>The</u> <u>Noise Guidebook</u>
  - Construct noise barrier. See the <u>Barrier</u>
     <u>Performance Module</u>

Refresh